

FIG.1

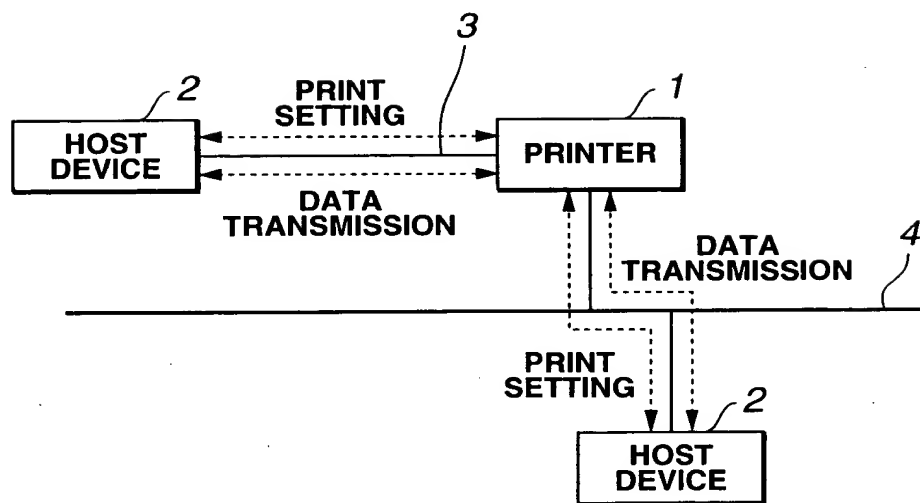


FIG. 2

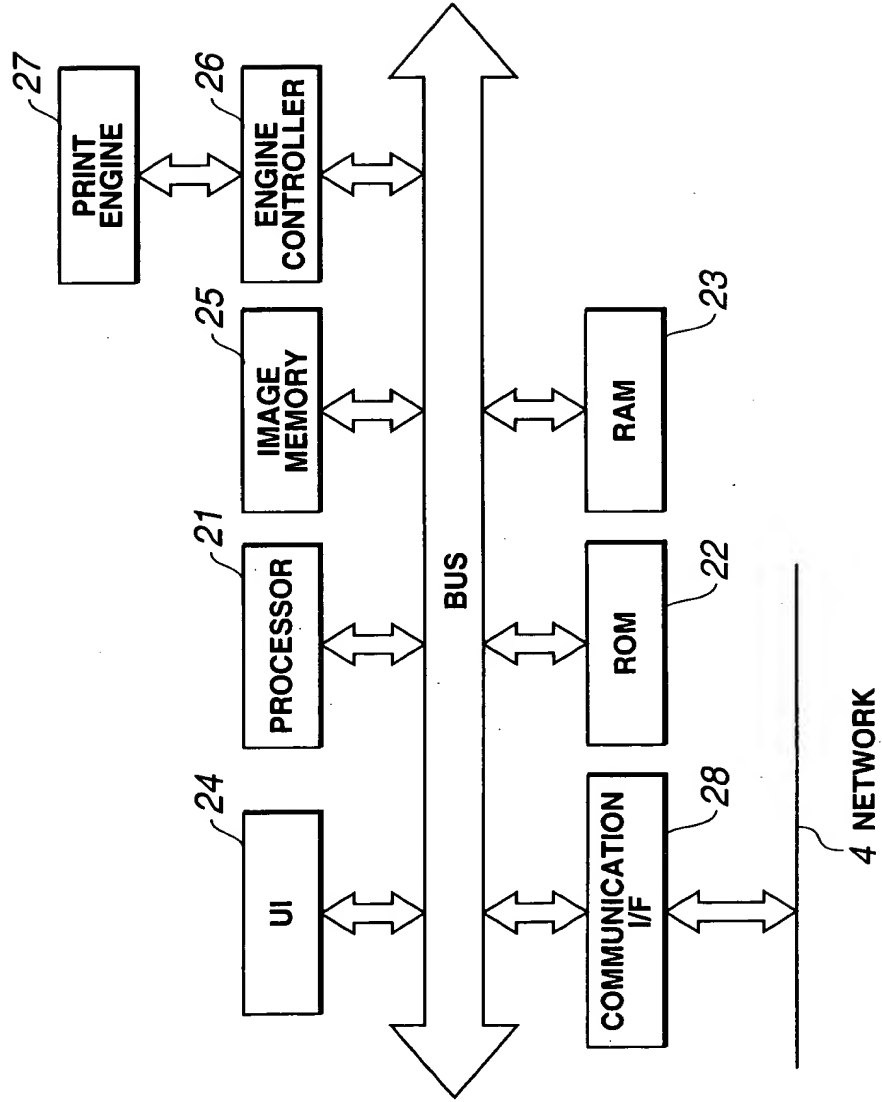


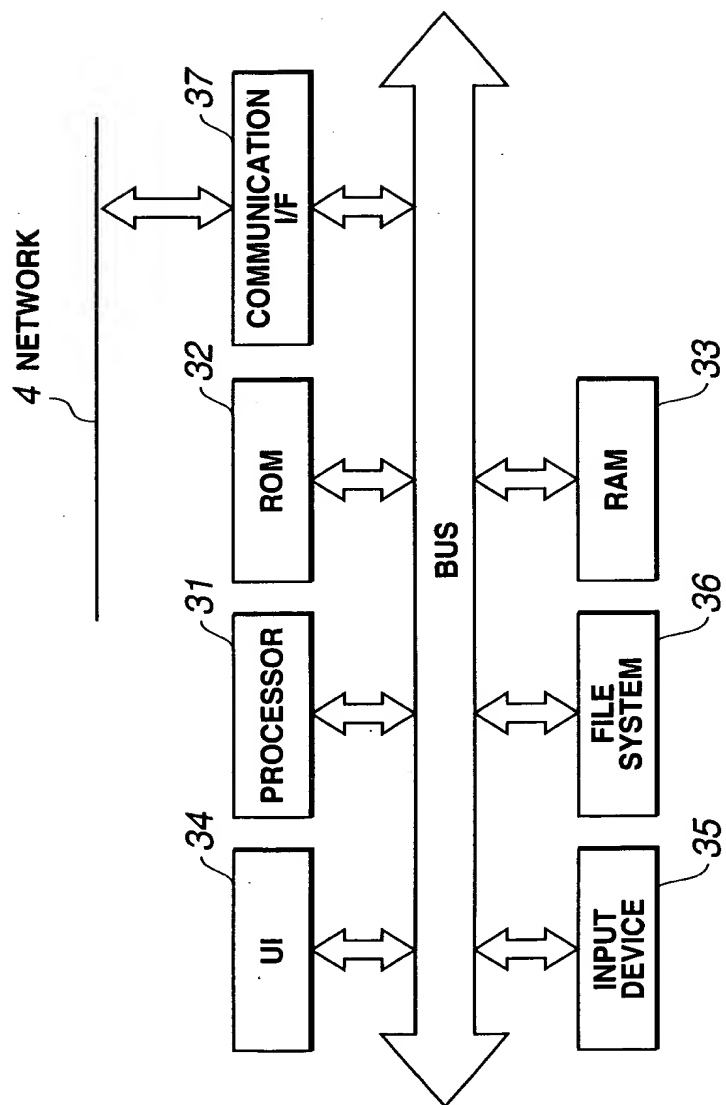
FIG. 3

FIG.4A

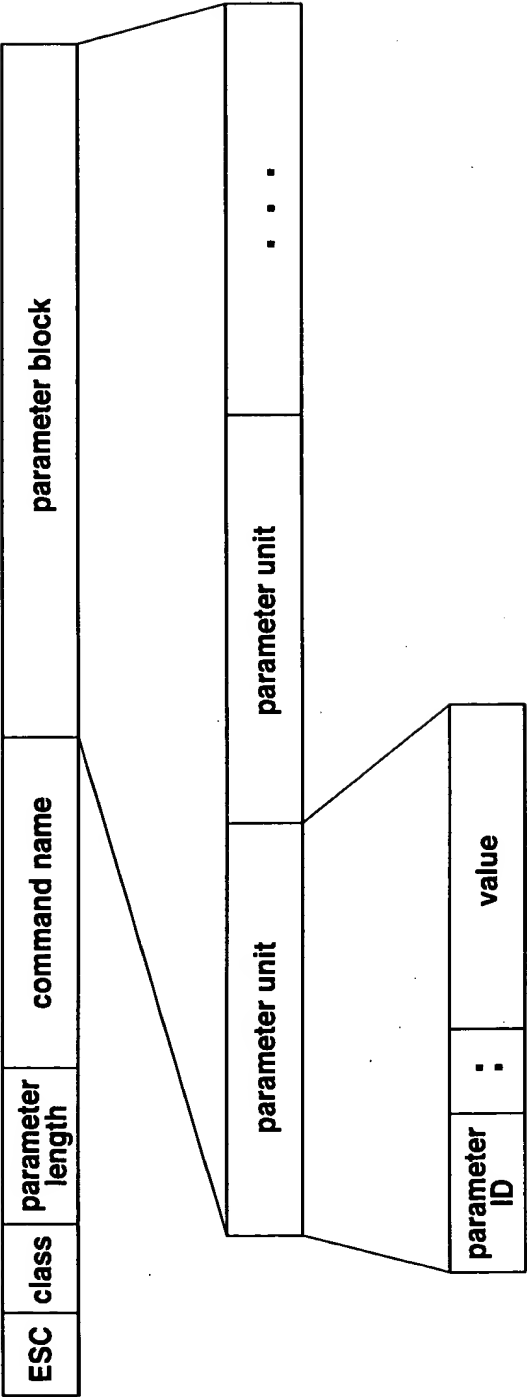


FIG.4B



[illegible]

host → printer

M	2	media quality (media)
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Q	1	quality (quality)
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highest picture quality



Br : Brightness
Cn : Contrast
St : Saturation
R : Red
G : Green
B : Blue

0	color printing
1	black and white printing

[illegible]

0	microwave off
1	standard microwave
2-265	expansion microwave

0	two-way printing
1	one-way printing

0	dither (high speed)
1	error deffusion (high picture quality)

H	2	horizontal resolution (hres)
V	2	vertical resolution (vres)

L	2	ID of user defined LUT (lut-id)
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FIG.7

[m: slut] set user defined LUT

host -> printer

param. ID	value length	contents
--------------	-----------------	----------

1	2	ID (id)
---	---	---------

+	4	data length (dtlen)
---	---	---------------------

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FIG.8

[p: inqa] Inquire page availability **host → printer**

param. ID	value length	contents
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D	2	denominator (denomi)
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005000 01E5500

[illegible]

host <- printer

param. ID	value length	contents
D	2	denominator (denomi)
W	4	maximum width (width)
H	4	maximum height (height)
T	4	minimum top margin (tmrgin)
L	4	left margin (lmrgin)
R	4	minimum right margin (rmrgin)
B	4	minimum bottom margin (bmrgin)

[illegible]

host → printer

D	2	denominator (denomi)						
W	4	width (width)						
H	4	height (height)						
T	4	top margin (tmrgin)						
A	1	arrangement						
		<table><tr><td>0</td><td>automatic arrangement</td></tr><tr><td>1</td><td>individual arrangement</td></tr><tr><td>2</td><td>perpendicular serial arrangement</td></tr></table>	0	automatic arrangement	1	individual arrangement	2	perpendicular serial arrangement
0	automatic arrangement							
1	individual arrangement							
2	perpendicular serial arrangement							
H	2	horizontal division (hdiv)						
V	2	vertical division (hdiv)						
X	1	horizontal padding ratio (hpadd)						
Y	1	vertical padding ration (vpadd)						

[illegible]

```
host <- printer
```

S	2	Status (status)
---	---	-----------------

0	normal termination
1	abnormal termination
2	suspension due to [p:term]
3	reception of [p:term] after completion of processing

FIG.12

[o: req#] request object numbers host → printer

param. ID	value length	contents
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N 2 number of object numbers (nobj)

FIG.13

[p: endp] end of page

host → printer

param. ID	value length	contents
--------------	-----------------	----------

S	1	eject (eject)
---	---	---------------

0	no paper feed after completion of printing
1	paper feed after completion of printing

[illegible]

```
host -> printer
```

E 1 eject (eject)

0	no paper feed after suspension
1	paper feed after suspension

FIG.15

[o:iss#] issue object numbers host ← printer

param. ID	value length	contents
--------------	-----------------	----------

N	2	number of object numbers (nobj#)
#	2	object number (obj#)

005000 0723900

FIG.16

[o:mkim] make image object

host -> printer

param. ID	value length	contents
--------------	-----------------	----------

#	2	object number (obj#)
---	---	----------------------

D	2	denominator (denomi)
---	---	----------------------

X	4	horizontal position (xpos)
Y	4	vertical position (ypos)

W	4	printing area width (width)
H	4	printing area height (height)

R	1	rotate (rotate)
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0	no rotation
1	90 degree in the clockwise direction
2	180 degrees
3	90 degrees in the counterclockwise direction
4	no rotation or 90 degrees in the clockwise direction
5	no rotation or 90 degrees in the counterclockwise direction

F	1	aspect fitting (asffit)
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0	fitting of image data
1	fitting of object deveopmental area
2	fitting of both image data and object developmental area

005510-005500

FIG.17

A **2** **alignment (align)**

upper bytes: vertical arrangement

0	arrange upper end
1	arrange center portion
2	arrange lower end

lower bytes: horizontal arrangement

0	arrange left end
1	arrange center portion
2	arrange right end

Q **1** **quick decoding (quick)**

0	no high-speed development
1	high-speed development

I **1** **intent (intent)**

0	photograph
1	text/graph

Z **4** **size of image data (dtsize)**

009000 OF 99900

FIG.19

B 6 border line

OH	OV	W
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OH : horizontal offset
OV : vertical offset
W : width

> 9 style of caption 1 (style1)
) 9 style of caption 2 (style2)

offset	pos	pitch	size	R	G	B
-	-	-	-	I	A	P

> 48 text string of caption 1 (str1)
) 48 text string of caption 2 (str2)

FIG.20

[o:rls] release object host ← printer

param. ID	value length	contents
--------------	-----------------	----------

#	2	object number (obj#)
---	---	----------------------

S	2	status (status)
---	---	-----------------

0	normal termination
1	abnormal termination
2	termination due to suspension of page processing

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FIG.21

[d:dreq] data request

host ← printer

param. ID	value length	contents
--------------	-----------------	----------

#	2	object number (obj#)
---	---	----------------------

L	4	requested length (reqlen)
---	---	---------------------------

005000 OF 59500

FIG.22

[o:dsnd] send data host ← printer

param. ID	value length	contents
--------------	-----------------	----------

2 object number (obj#)

S 2 status (status)

0	normal
1	EOF
2	incorrect object number of data request

+ 4 data length (dtlen)

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[illegible]

```
host <- printer
```

#	2	object number (obj#)
---	---	----------------------

0 2 origin (origin)

L	4	offset
----------	----------	---------------

FIG.24

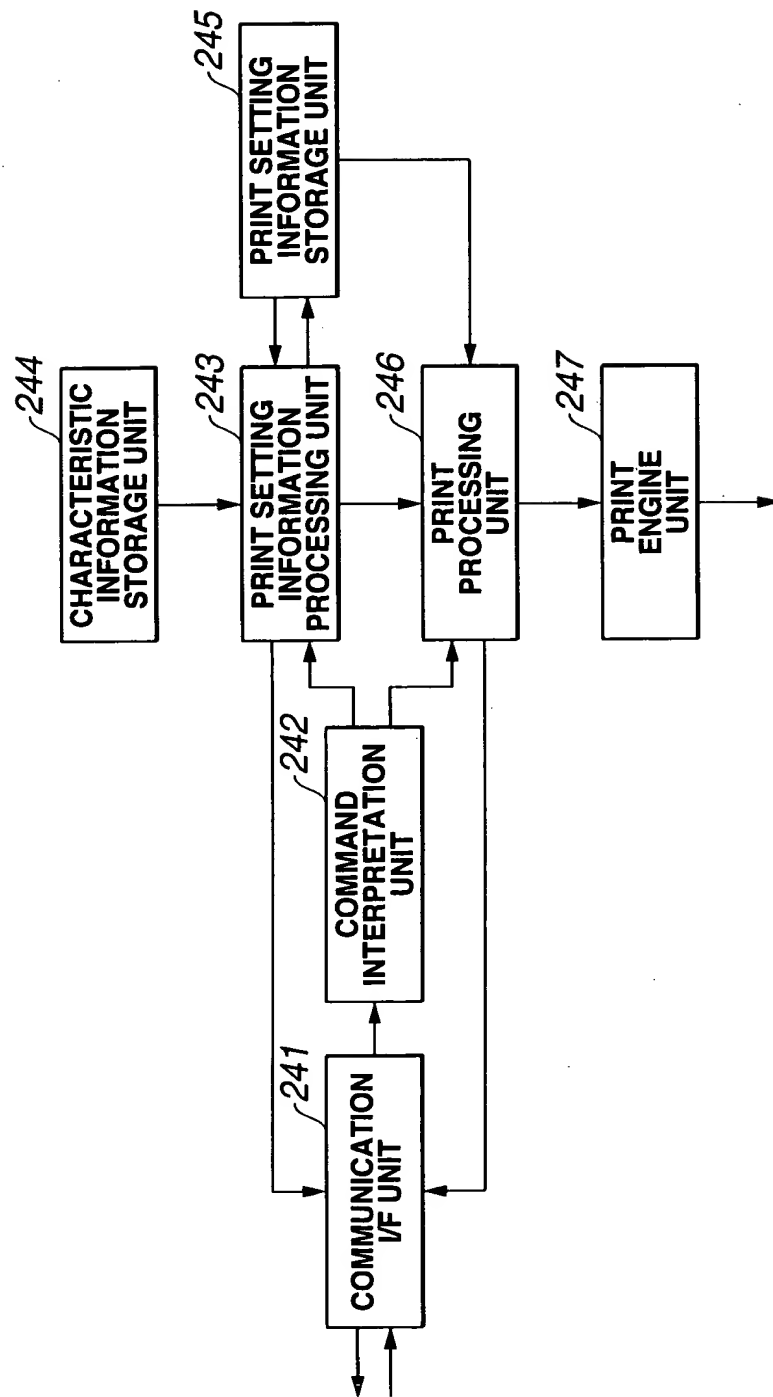


FIG.25

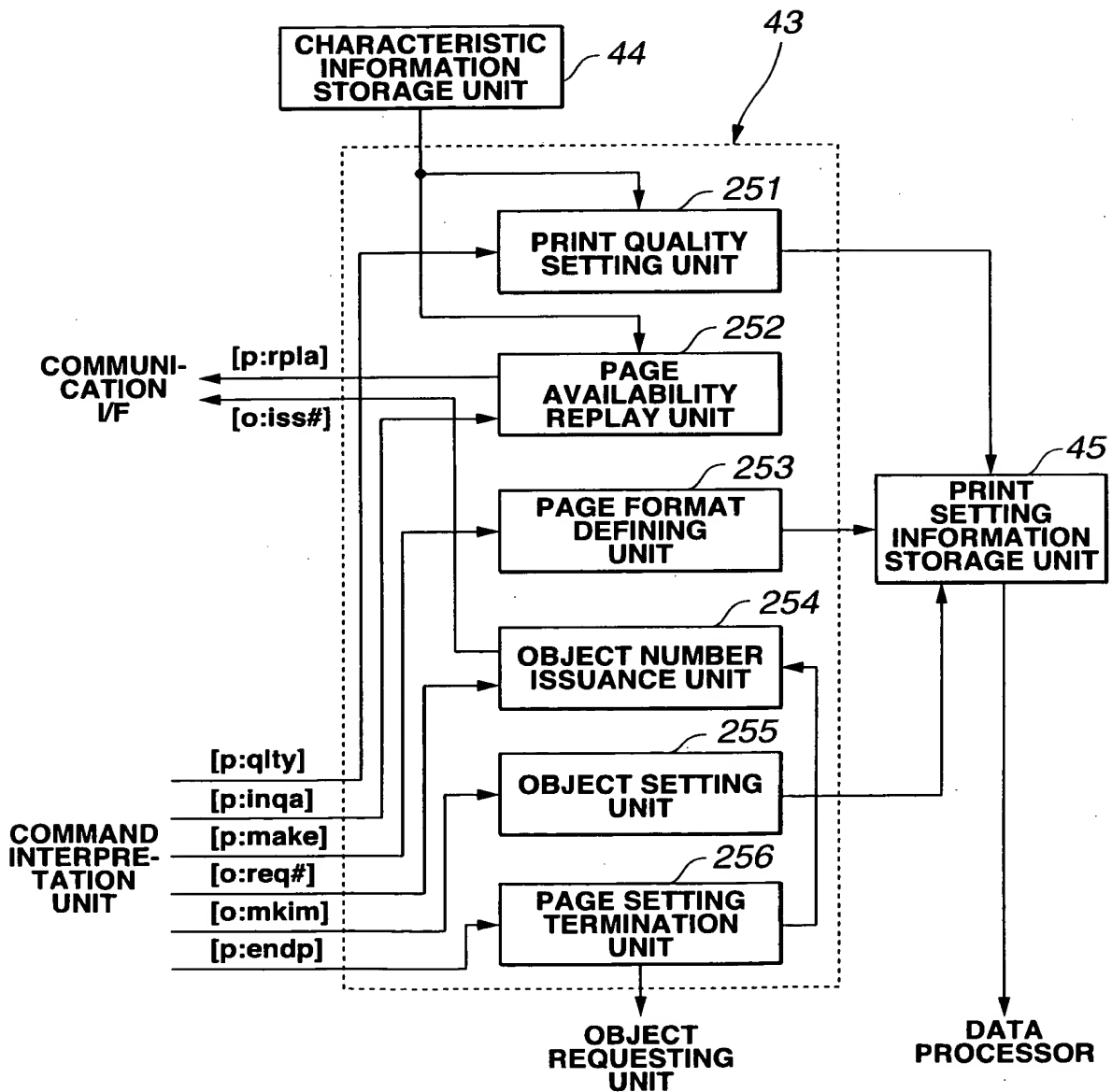


FIG.26

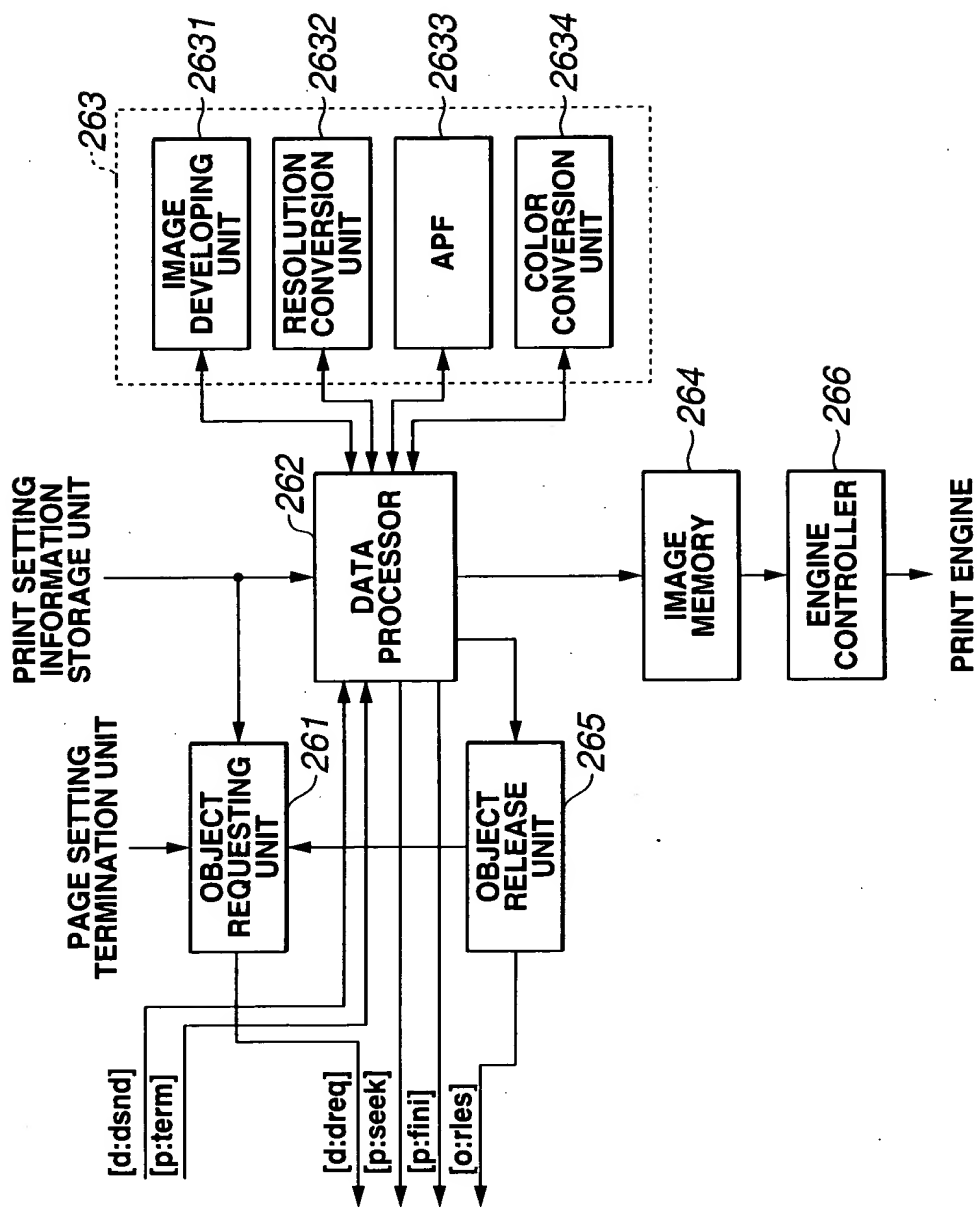


FIG.27

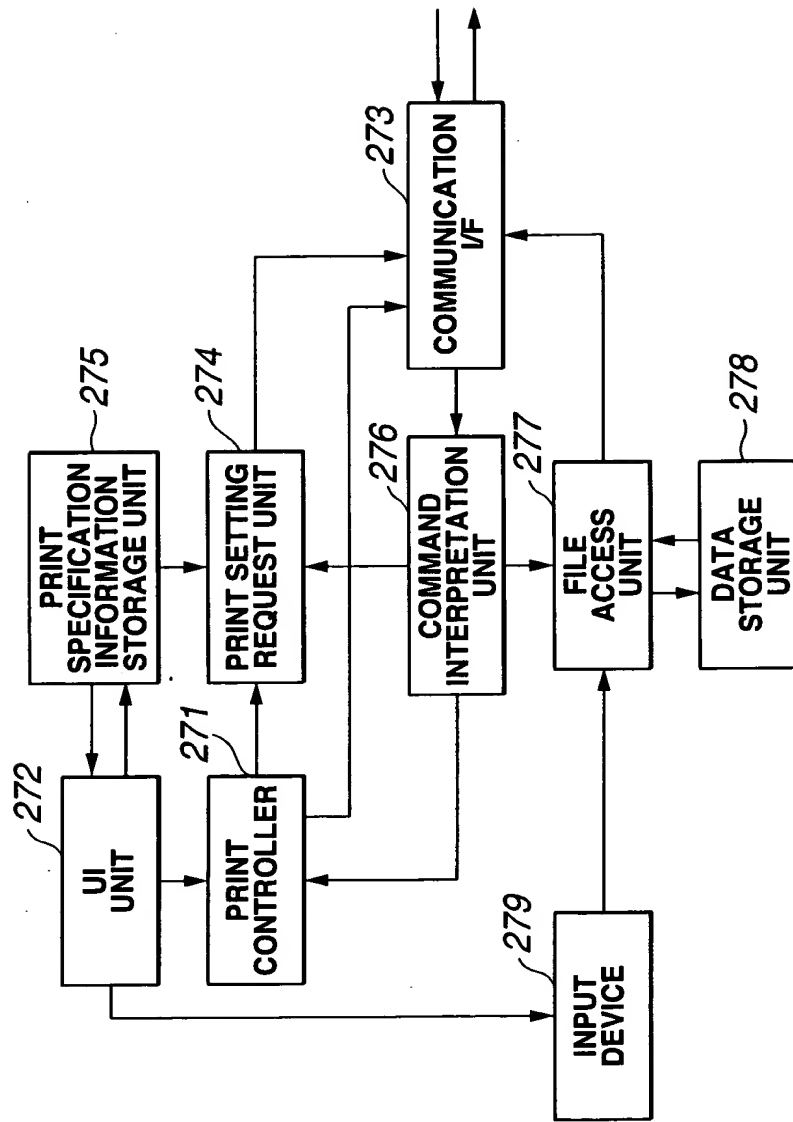


FIG.28

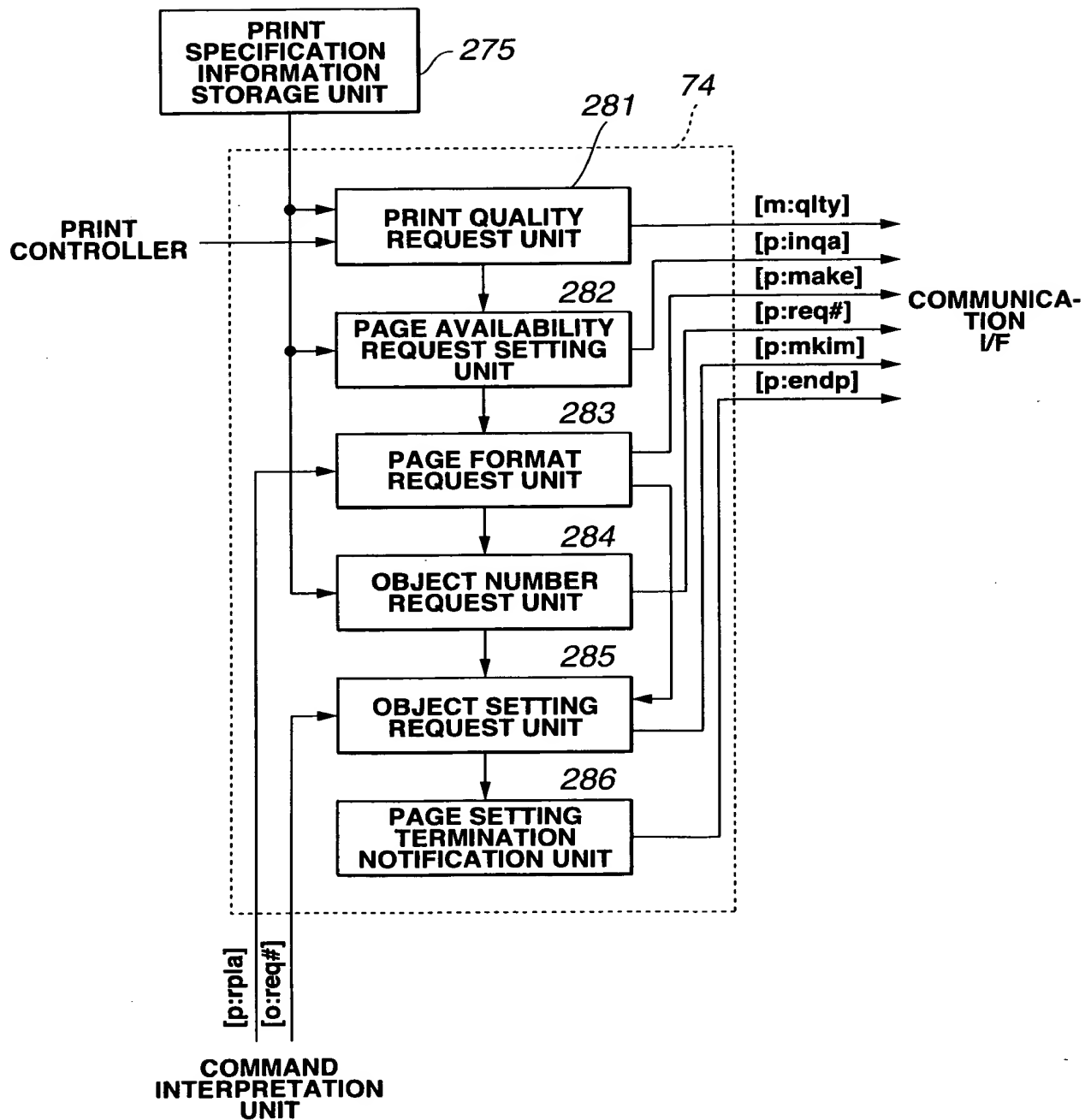
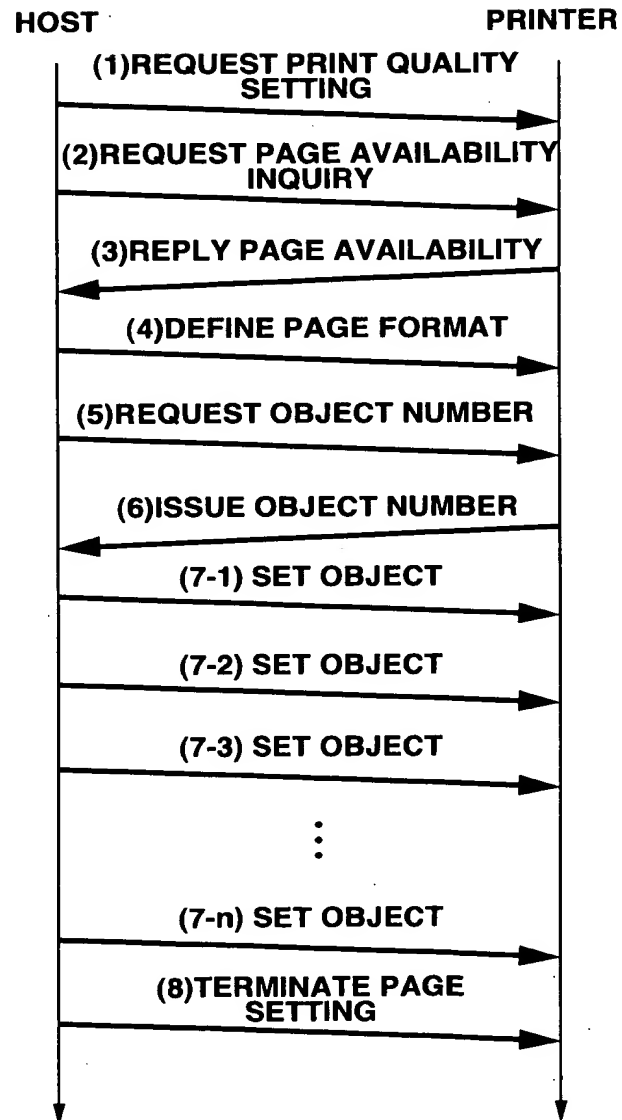
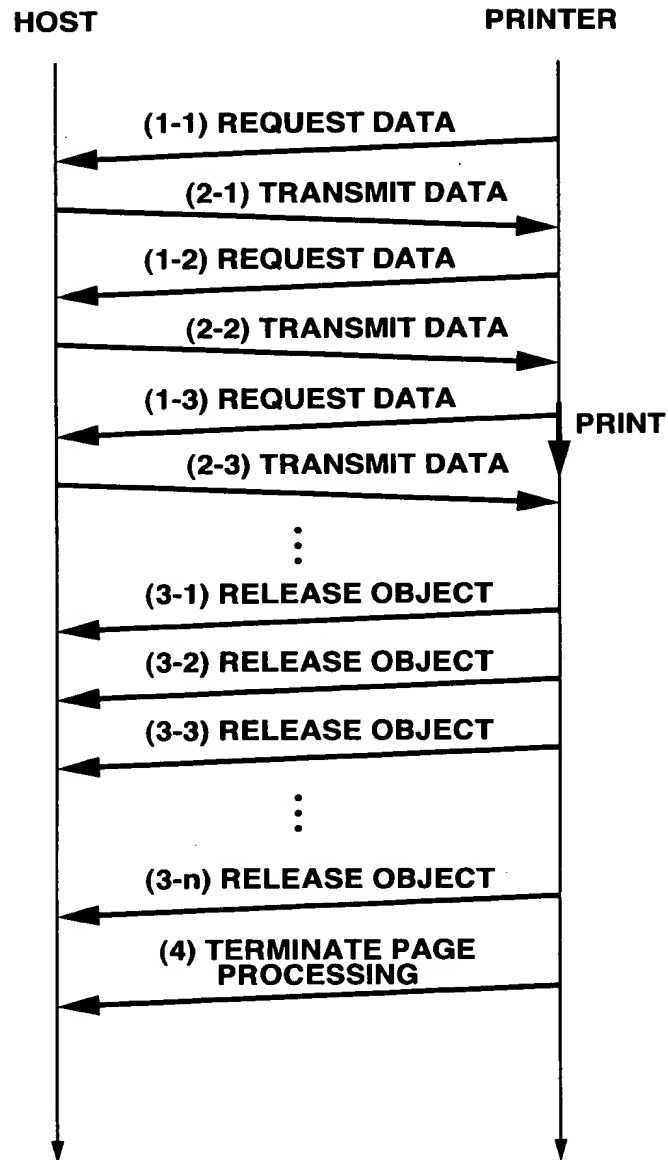


FIG.29



0055310-005500

FIG.30



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FIG.31

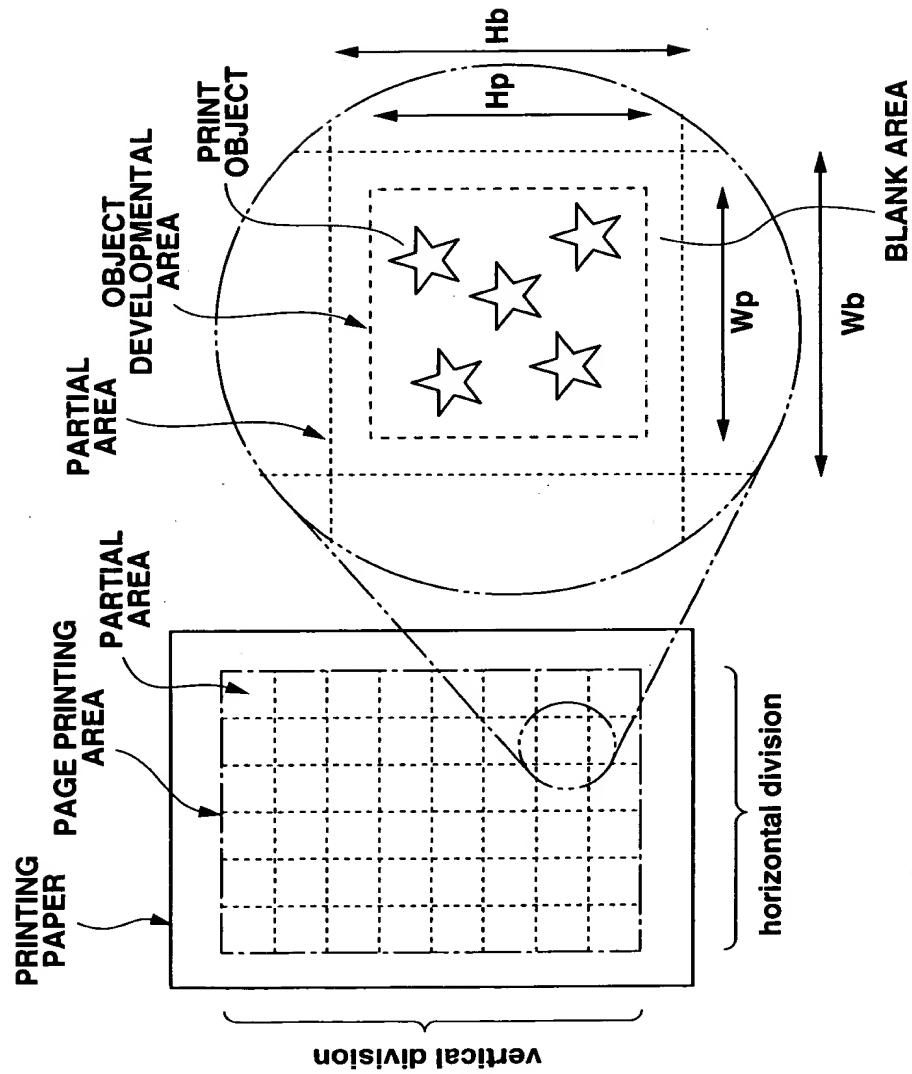
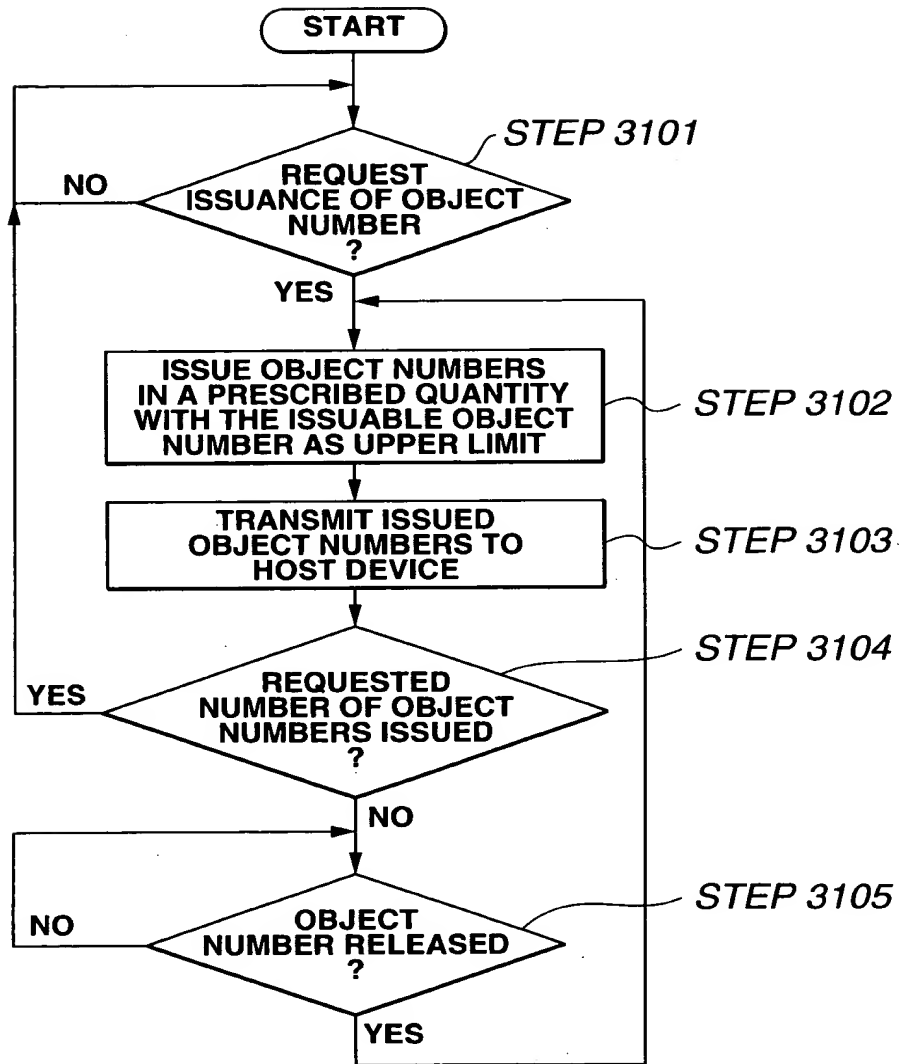


FIG.32



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FIG.33

